

THE KNOWN GEOGRAPHIC DISTRIBUTION OF THE MEMBERS OF THE
VERBENACEAE, AVICENNIACEAE, STILBACEAE, SYMPHOREMACEAE, AND
ERIOCAULACEAE. SUPPLEMENT 4

Harold N. Moldenke

Since the publication of my previous supplement to this list in April of this year several thousand additional specimens of these groups have passed through my hands. These have brought to light 19 new county records, 106 new state and province records, and 140 new country and island records. In accordance with the new recommendation adopted at the Seventh International Botanical Congress at Stockholm this past summer, all scientific epithets below the rank of genus are hereinafter written with a lower-case initial letter.

Dr. G. H. Kostermans has recently very kindly sent me a copy of a monographic study of the genus Teijsmanniodendron on which he has been working for some years and which is now in press. Unfortunately, permission to quote the several new names and combinations which he proposes in this work has not reached me as this supplement goes to press, so I cannot yet report on the changes which his studies necessitate in regard to our records from Burma, French Indochina, Thailand, Federated Malay States, Straits Settlements, Sumatra, Anambas Islands, British North Borneo, Sarawak, Borneo, Celebes, Lesser Sunda Islands, Molucca Islands, New Guinea, and cultivation.

CANADA:

Quebec:

Eriocaulon septangulare With. [Lévis, Maskinongé, Papineau, Saint Jean, & Saint Maurice Counties]

Ontario:

Verbena hastata L. [Essex County]

UNITED STATES OF AMERICA:

Virginia:

Eriocaulon decangulare L. [Norfolk County]

South Carolina:

Eriocaulon decangulare L. [Kershaw County]

Florida:

Lantana montevidensis (Spreng.) Briq. [Lee County]

Verbena canadensis (L.) Britton [Lee County]

Indiana:

Phyla lanceolata (Michx.) Greene [Hancock County]

Verbena bipinnatifida Nutt. [Orange County]

Verbena bracteata Lag. & Rodr. [Marion County]

xVerbena engelmannii Moldenke [Fulton & Greene Counties]

Verbena simplex Lehm. [Warren County]
Verbena stricta Vent. [Orange County]
Verbena urticifolia L. [Fulton County]

Minnesota:

Eriocaulon septangulare With. [Ottertail County]

MEXICO:

Bouchea prismatica var. brevirostra Grenz. [Tamaulipas]
Citharexylum fulgidum Moldenke [Hidalgo]
Citharexylum oleinum (Benth.) Moldenke [Hidalgo]
Phyla nodiflora var. rosea (D. Don) Moldenke [Federal District]
Syngonanthus caulescens (Poir.) Ruhl. [Veracruz]
Verbena neomexicana var. xylopoda Perry [Tamaulipas]

HONDURAS:

Avicennia nitida Jacq. is to be deleted
Callicarpa acuminata H.B.K. -- delete "Bay Islands" because
 these islands are better placed as a separate heading
Citharexylum caudatum L. -- delete "Bay Islands"

BAY ISLANDS:

Avicennia nitida Jacq. [Holbox]
Callicarpa acuminata H.B.K. [Roatan]
Citharexylum caudatum L.
Lantana involucrata L. [Holbox]
Lippia graveolens H.B.K. [Mugeres]
Phyla nodiflora var. longifolia Moldenke [Holbox]
Stachytarpheta jamaicensis (L.) Vahl [Mugeres]

PEARL ISLANDS:

Avicennia bicolor Standl. [San José]
Avicennia nitida Jacq. [San José]

HISPANIOLA:

Holmskioldia sanguinea Retz. [Dominican Republic]

COLOMBIA:

Lantana rugulosa H.B.K. [Nariffo]
Lippia organoides H.B.K. [Santander]
Paepalanthus dendroides (H.B.K.) Kunth is to be deleted
Paepalanthus pilosus (H.B.K.) Kunth [Boyacá & Santander]
Paepalanthus schultesii Moldenke [Cundinamarca]*
Syngonanthus caulescens (Poir.) Ruhl. [Cundinamarca]
Syngonanthus vaupesanus Moldenke -- delete the asterisk
Verbena glabrata H.B.K. [Nariffo]
Vitex stahelii Moldenke [Méta]

VENEZUELA:

Paepalanthus dendroides (H.B.K.) Kunth is to be deleted
Phyla nodiflora (L.) Greene [Zulia]

Syngonanthus tenuis (H.B.K.) Ruhl -- delete the asterisk

PERU:

Aloysia scorodonioides var. detonsa (Briq.) Moldenke [Lima]

Lantana canescens H.B.K. [Cuzco]

Lantana ferreyrae Moldenke [Amazonas]*

Lantana haughtii Moldenke [Amazonas]

Lantana reptans Hayek [Ancachs]

Lantana scabiosaeflora H.B.K. [Amazonas]

Lantana svensonii Moldenke [Cajamarca]

Verbena occulta f. alba Moldenke [Ancachs]

BRAZIL:

Aegiphila fluminensis Vell. [Federal District]

Aegiphila lhotzkiana Cham. [Maranhão]

Aegiphila obducta Vell. [Federal District]

Aegiphila sellowiana Cham. [Federal District]

Aegiphila vitelliniflora Klotzsch [Federal District]

Aloysia brasiliensis Moldenke [Rio Grande do Sul]

Aloysia lycioides Cham. [Rio Grande do Sul]

Aloysia virgata var. platyphylla (Briq.) Moldenke [Rio Grande do Sul]

Clerodendrum calamitosum L. [Amazonas]

Lantana armata Schau. [Pará]

Lantana camara L. [Pará]

Lantana camara var. aculeata (L.) Moldenke [Santa Catharina]

Lantana undulata Schrank [Santa Catharina]

Lippia angustifolia Cham. [Rio Grande do Sul]

Lippia arechavaletae var. microphylla Moldenke [Rio Grande do Sul]*

Lippia ekmani Moldenke [Rio Grande do Sul]

Lippia morongii Kuntze [Rio Grande do Sul]

Lippia ramboi Moldenke [Rio Grande do Sul]*

Lippia turnerifolia var. sessilifolia Moldenke [Rio Grande do Sul]*

Lippia villafloridana Kuntze [Rio Grande do Sul]

Paepalanthus claussenianus Körn. [Maranhão]

Paepalanthus cururensis Moldenke [Amazonas]

Paepalanthus decorus Abbiatti [Rio Grande do Sul]*

Paepalanthus hatschbachi Moldenke [Paraná & Rio Grande do Sul]*

Paepalanthus jahni Ruhl. is to be deleted

Paepalanthus myocephalus var. minor Körn. [Pernambuco]

Paepalanthus supinus Körn. [Amapá]

Petrea riparia Moldenke [Amazonas]

- Stachytarpheta maximiliani var. glabrata Schau. [Paraná]
Stachytarpheta polyura Schau. [Rio de Janeiro]
Syngonanthus glandulosus Gleason [Amapá]
Syngonanthus reclinatus (Körn.) Ruhl. [Maranhão]
Syngonanthus tenuis (H.B.K.) Ruhl. [Pará]
Syngonanthus tricostatus Gleason [Goyaz]
Syngonanthus umbellatus (Lam.) Ruhl. [Amapá]
Syngonanthus vaupesanus Moldenke [Pará]
Verbena dissecta Willd. [Rio Grande do Sul]
Verbena gracilescens (Cham.) Herter [Rio Grande do Sul]
Verbena hatschbachi Moldenke [Paraná]*
Verbena herteri Moldenke [Rio Grande do Sul]
Verbena ovata Cham. [Rio Grande do Sul]
Verbena sessilis (Cham.) Kuntze [Rio Grande do Sul]
Vitex polygama var. bakeri Moldenke [Espírito Santo]
Vitex polygama var. hirsuta Schau. [Espírito Santo]
Vitex triflora Vahl -- delete "Rio de Janeiro"
Vitex triflora var. angustiloba Huber -- delete the asterisk
Vitex triflora var. kraatzii Huber -- delete the asterisk

MARAJÓ ISLAND:

- Avicennia nitida Jacq.
Vitex triflora var. angustiloba Huber
Vitex triflora var. kraatzii Huber

BOLIVIA:

- Priva boliviana Moldenke -- delete the asterisk

PARAGUAY:

- Priva boliviana Moldenke

URUGUAY:

- Verbena herteri Moldenke -- delete the asterisk

CHILE:

- Junellia digitata (R. A. Phil.) Moldenke [Antofagasta]
Phyla nodiflora var. reptans (H.B.K.) Moldenke [Atacama]
Verbena berterii (Meisn.) Schau. [Talca]
Verbena hispida Ruiz & Pav. [Concepcion]

ARGENTINA:

- Aloysia castellanosi Moldenke [La Rioja]
Aloysia catamarcensis Moldenke [La Rioja]
Aloysia ovatifolia Moldenke [San Luis]
Junellia asparagoides (Gill. & Hook.) Moldenke [Jujuy]
Junellia glauca var. cisandina (Niederlein) Moldenke [Neu-
 quen]
Lantana montevidensis (Spreng.) Briq. [Santa Fé]
Lippia ekmani Moldenke -- delete the asterisk

- Verbena bonariensis L. [San Luis]
Verbena peruviana (L.) Britton [Entre Ríos]
Verbena platensis var. stenodes Briq. [Jujuy]
Verbena stellarioides Cham. [Chaco]

FRANCE:

- Vitex agnus-castus f. latifolia (Mill.) Rehd.

SPAIN:

- Vitex agnus-castus f. latifolia (Mill.) Rehd.

AUSTRIA:

- Vitex agnus-castus f. latifolia (Mill.) Rehd.

IONIAN ISLANDS:

- Vitex agnus-castus L. [Cephalonia]

RHODES:

- Vitex agnus-castus L.

ITALY:

- Phyla lanceolata (Michx.) Greene

- Vitex agnus-castus var. caerulea Rehd.

- Vitex agnus-castus f. latifolia (Mill.) Rehd.

- Vitex agnus-castus f. rosea Rehd.

TRIESTE:

- Verbena officinalis L.

- Vitex agnus-castus L.

SICILY:

- Vitex agnus-castus f. latifolia (Mill.) Rehd.

CORSICA:

- Vitex agnus-castus f. latifolia (Mill.) Rehd.

MALTA:

- Vitex agnus-castus L.

JUGOSLAVIA:

- Vitex agnus-castus L. [Istria]

- Vitex agnus-castus f. alba (West.) Rehd.

MOROCCO:

- Vitex agnus-castus f. latifolia (Mill.) Rehd.

ERITREA:

- Lippia adoensis Hochst.

BELGIAN CONGO:

- Lippia callensi Moldenke*

NORTHERN RHODESIA:

- Lantana kisi A. Rich.

SOUTHERN RHODESIA:

- Priva cordifolia var. flabelliformis Moldenke

COMORO ISLANDS:

- Clerodendrum putre Schau. [Comoro]

- Clerodendrum speciosissimum Van Geert [Anjouan]

MADAGASCAR:

- Clerodendrum lastellei Moldenke*
Clerodendrum leandrii Moldenke*
Clerodendrum loniceroides Moldenke*
Clerodendrum mananjariense Moldenke*
Clerodendrum mandrareense Moldenke*
Clerodendrum manombense Moldenke*
Clerodendrum moremangense Moldenke*
Clerodendrum myricoides (Hochst.) R. Br.
Clerodendrum myrtifolium Moldenke*
Clerodendrum paucidentatum Moldenke*
Clerodendrum pauciflorum Moldenke*
Clerodendrum peregrinum Moldenke*
Clerodendrum perrieri Moldenke*
Clerodendrum perrieri var. laxicyosum Moldenke*
Clerodendrum perrieri var. macrophyllum Moldenke*
Clerodendrum premnoides Moldenke*
Clerodendrum putre var. subglabratum Moldenke*
Clerodendrum roseiflorum Moldenke*
Clerodendrum rubellum var. anomalum Moldenke*
Clerodendrum sakaleonense Moldenke*
Clerodendrum subtruncatum Moldenke*
Clerodendrum subtruncatum f. magnifolium Moldenke*
Clerodendrum sylvestre Moldenke*
Clerodendrum tubulosum Moldenke*
Clerodendrum villosicalyx Moldenke*
Clerodendrum vinosum Moldenke*

REUNION:

- Clerodendrum nutans Wall.
Clerodendrum serratum var. glabrescens Moldenke*

TURKEY:

- Vitex agnus-castus f. latifolia (Mill.) Rehd.
Vitex agnus-castus var. pseudo-negundo (Hausskn.) Bormm.

AFGHANISTAN:

- Vitex agnus-castus var. pseudo-negundo (Hausskn.) Bormm.

INDIA:

- Eriocaulon brownianum Mart. [Mysore]
Eriocaulon dalzellii Körn. [Mysore]
Eriocaulon edwardii Fyson is the correct orthography of this
 binomial
Eriocaulon fluitans Griff. is to be deleted
Eriocaulon gracile Mart. [Bombay]
Eriocaulon hamiltonianum var. minimum Fyson [Madras]*
Eriocaulon hamiltonianum var. minor Fyson [Assam]*

Eriocaulon quinquangulare L. [Bombay]

Eriocaulon robustum Steud. [Bombay]

Holmskioldia sanguinea Retz. [Mysore]

BURMA:

Eriocaulon gracile var. kurzii Fyson*

Eriocaulon quinquangulare var. martianum Wall.*

ANDAMAN ISLANDS:

Eriocaulon wightianum var. helferi Hook. f.*

CEYLON:

Eriocaulon quinquangulare var. walkeri Hook. f.*

CHINA:

Caryopteris incana (Thunb.) Miq. [Hunan]

Clerodendrum bungei Steud. [Hunan]

Clerodendrum cyrtophyllum Turcz. [Hunan]

KOREA:

xCallicarpa shirasawana Mak.

Caryopteris divaricata (Sieb. & Zucc.) Maxim.

Caryopteris incana (Thunb.) Miq.

Verbena officinalis L.

Vitex trifolia var. simplicifolia Cham.

QUELPART ISLAND:

Callicarpa dichotoma (Lour.) K. Koch

Callicarpa japonica Thunb.

Callicarpa japonica var. luxurians Rehd.

Callicarpa japonica var. taquetii (Léveillé) Nakai

Callicarpa mollis Sieb. & Zucc.

Clerodendrum trichotomum Thunb.

Verbena officinalis L.

Vitex trifolia var. simplicifolia Cham.

JAPAN:

Vitex trifolia var. heterophylla (Mak.) Moldenke -- delete
the asterisk

FRENCH INDOCHINA:

Callicarpa baviensis Moldenke [Tonkin]*

Callicarpa longifolia Lam. [Tonkin]

Callicarpa poilanei Dop [Tonkin]

Clerodendrum serratum (L.) Moon [Tonkin]

Teijsmanniodendron peteloti Moldenke [Tonkin]*

FEDERATED MALAY STATES:

Teijsmanniodendron pteropodum (Miq.) Bakh. [Johore, Kedah, &
Pahang]

STRAITS SETTLEMENTS:

Teijsmanniodendron pteropodum (Miq.) Bakh. [Singapore]

PHILIPPINE ISLANDS:

Callicarpa erioclona Schau. [Bohol, Culi6n, & Panay]

Geunsia farinosa Blume [Balabac]

SIMALUR ISLAND:

Teijsmanniodendron pteropodum (Miq.) Bakh.

SUMATRA:

Eriocaulon thwaitesii Körn.Teijsmanniodendron simplicifolium Merr.Vitex koordersii H. J. Lam is to be deletedVitex venosa H. J. Lam is to be deleted

JAVA:

Eriocaulon thwaitesii Körn.

BRITISH NORTH BORNEO:

Teijsmanniodendron bogoriense Koord.Teijsmanniodendron glabrum Merr. is to be deleted

SARAWAK:

Teijsmanniodendron bogoriense Koord.

BORNEO:

Teijsmanniodendron glabrum Merr. is to be deletedVitex flabelliflora H. Hallier is to be deletedVitex koordersii H. J. Lam is to be deletedVitex tetragona H. Hallier is to be deleted

LESSER SUNDA ISLANDS:

Teijsmanniodendron ahernianum (Merr.) Bakh. [Banka]Vitex bankae H. J. Lam is to be deletedVitex bogoriensis H. J. Lam is to be deleted

MOLUCCA ISLANDS:

Teijsmanniodendron ahernianum (Merr.) Bakh [Obi]Teijsmanniodendron bogoriense Koord. [Amboina & Ceram]

NEW GUINEA:

Teijsmanniodendron ahernianum (Merr.) Bakh. [Northwestern
New Guinea & Schouten Island]Teijsmanniodendron bogoriense Koord. [Japen Island, Papua, &
Schouten Island]Xerocarpa avicenniaefoliola H. J. Lam is to be deleted

HAWAIIAN ISLANDS:

Lantana camara var. flava (Medic.) Moldenke [Kauai]

NEW CALEDONIA:

Vitex trifolia var. bicolor (Willd.) MoldenkeVitex trifolia var. heterophylla (Mak.) Moldenke

AUSTRALIA:

Lippia alba (Mill.) N. E. Br. [Queensland]

LOW ISLAND:

Avicennia eucalyptifolia Zipp.Avicennia marina var. anomala Moldenke*Avicennia marina var. resinifera (Forst.) Bakh.

TASMANIA:

- Avicennia eucalyptifolia Zipp. is to be deleted
Avicennia marina var. anomala Moldenke is to be deleted
Avicennia marina var. resinifera (Forst.) Bakh. is to be deleted

CULTIVATED:

- Aloysia virgata var. elliptica (Briq.) Moldenke [Argentina]
Clerodendrum nutans Wall. [Réunion]
Clerodendrum pyriformium J. G. Baker [Réunion]
Clerodendrum speciosissimum Van Geert [Comoro Islands]
Clerodendrum thomsonae Balf. f. [Chile & Madagascar]
Clerodendrum trichotomum Thunb. [Chile]
Clerodendrum trichotomum var. ferrugineum Nakai [Chile]
Clerodendrum umbellatum var. speciosum (Dombrain) Moldenke [Chile]
Duranta repens L. [Chile]
Laetana tiliaefolia Cham. [Chile]
Teijsmanniodendron ahernianum (Merr.) Bakh. [Java]
Verbena canadensis (L.) Britton [Georgia]
Vitex agnus-castus L. [Brazil]
Vitex bogoriensis H. J. Lam is to be deleted
Vitex triflora Vahl [Brazil & France]

 ADDITIONAL NOTES ON THE ERIOCAULACEAE. V

Harold N. Moldenke

Explanation of the abbreviations used for the names of herbaria in which material hereinafter cited is deposited will be found in the previous installments of this series of notes in *Phytologia* 1: 309--336 (1939), 1: 343--364 (1939), 3: 178--192 (1949), and 3: 321--344 (1950). Additional abbreviations used in the present installment are Cn = University of Cincinnati, Cincinnati, Ohio; Cr = J. Carabia Herbarium, Havana, Cuba; Fn = Facultad Nacional de Agronomia, Universidad Nacional, Medellin, Colombia; Ll = Lloyd Library, Cincinnati, Ohio; and Wl = William Lucian Herbarium, Waterbury, Connecticut.

ERIOCAULON Gronov.

J. T. Mackay in his "Flora Hibernica", p. 288 (1836) places this genus in the Restiaceae (Restionaceae) and gives the etymology of the generic name as εριον, wool, and καυλος, stem, in